

Pobrano ze strony

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HF TETPOR H.T. Filters

- air / gas filters
- expanded PTFE

HIGH FLOW TETPOR H.T. gas sterilization filter cartridges provide unrivalled performance in process industry applications where continuous cartridge operation of up to 100 °C (212 °F) is a requirement.

Applications include specific biological fermentations which use high inlet air temperatures and heated vent filters on storage tanks whose contents are at elevated temperatures >80 °C (176 °F), e.g. WFI tanks.

HIGH FLOW TETPOR H.T. cartridges utilize a proven inherently hydrophobic, expanded PTFE membrane validated as sterilizing grade in liquid in accordance with ASTM F838. This ensures the removal of all airborne bacteria, viruses and bacteriophage. Polyaramid membrane support layers facilitate continuous operation at temperatures up to 100 °C (212 °F).

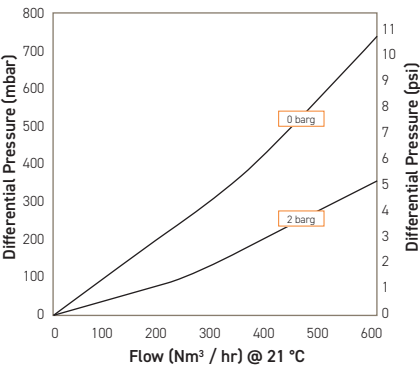
Features and Benefits

- Long service life even at elevated temperatures 100 °C (212 °F)
- Assured biosecurity with absolute rated filtration
- Stainless steel inner core
- Steam sterilizable to 142 °C (287 °F)
- Exceptionally high flow rates with low pressure drops



Note: TETPOR is a registered trademark of Parker Hannifin Corporation.

Performance Characteristics



10" Size (250 mm) Cartridge

Specifications

Materials of Construction

- Filtration Membrane: Expanded PTFE
- Upstream Support: Polyaramid
- Downstream Support: Polyaramid
- Inner Support Core: 316L Stainless Steel
- Outer Protection Cage: Heat Stabilized Polypropylene
- End Caps: Heat Stabilized Polypropylene
- End Cap Insert: Stainless Steel
- Standard o-rings: Silicone

Biological Safety

Materials conform to current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.0 barg (43.51 psig) at 90 °C (194 °F).

The maximum recommended continuous operating temperature is 100 °C (212 °F).

Effective Filtration Area (EFA)

K size 0.4m² (0.43ft²)
10" (250 mm) 0.9 m² (9.8 ft²)

Sterilization

HIGH FLOW TETPOR H.T. cartridges can be in situ steam sterilized for up to 120 cycles at 142 °C (287.6 °F).

Retention Characteristics

HIGH FLOW TETPOR H.T. cartridges have been fully validated as sterilizing grade filters for compressed air and gas applications. They provide sterile filtrate when challenged with a liquid bacterial culture in accordance with ASTM F838 (current revision).

+ASTM American Society for Testing and Materials

Integrity Test Data

All modules are integrity tested prior to despatch using the diffusional flow test method. Values are for cartridges wetted with 60:40 Isopropanol / Water.

Micron Rating		0.2
Diffusional Flow	(barg)	0.80
Test Pressure	(psig)	11.6
Minimum Bubble Point	(barg)	1.00
Max. Diffusional Flow	(K)	7.1
(ml / min)	(10")	16.0
	(20")	32.0
	(30")	48.0

Ordering Information

ZCHT / -

Code	Length (Nominal)	Code	Endcap (10")	Code	Variant	Code	O-rings
K	5" (125 mm)	C	BF / 226 Bayonet	N	High temperature	E	EPDM
1	10" (250 mm)					P	PTFE Encapsulated Silicone
2	20" (500 mm)					S	Silicone
3	30" (750 mm)					V	Viton